

<110> MERISTEM THERAPEUTICS

<120> CLEAN SYNTHETIC VECTORS, PLASMIDS, TRANSGENIC PLANTS
AND PLANT PARTS CONTAINING SAID VECTORS, AND THEIR
METHODS OF PRODUCTION

<130> SynVec1

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<160> 57

<170> PatentIn Ver. 2.1

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Plasmid
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<223> Origin of replication ori RK2

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<222> (655)..(2013)

<223> NPT III gene coding for neomycin
phosphotransferase and kanamycin resistance

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<222> (2014)..(3508)

<223> TrfA locus from pRK2 coding for two proteins P285
and P382 enabling an increase in the replication
rate

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 and P382 enabling the increase of the rate of
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<223> NPT III gene coding for neomycin
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<223> TrfA locus coding for two proteins, P285 and P382,
enabling the increase in the rate of replication

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<223> T-DNA left border

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<223> Nopaline synthetase terminator

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<222> (4560)..(5556)

<223> Wild type NPT II gene coding for neomycin
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<222> (5557)..(5770)

<223> Nopaline synthetase promoter

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<223> Wild type NPTII gene coding for neomycin transferase and kanamycin resistance

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<223> Nopaline synthetase promoter

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 and P382, enabling the increase in the replication
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<223> TrfA locus f RK2 coding for two proteins, P2
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<223> T-DNA right border

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<223> NPT III gene coding for neomycin
      phosphotransferase and kanamycin resistance

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<220>
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 <223> TrfA locus from pRK2 coding for two proteins, P285
 and P382, enabling the increase of the replication
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 phosphotransferase and kanamycin resistance

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phosphotransferase and kanamycin resistance

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and P382, enabling the inncrease in the rate of
replication

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<210> 23
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligo
desoxynucleotide containing AvrII restriction site

<400> 23

aacctaggaa aagaccgagc gcctttgc

28

<210> 24

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligo
Desoxynucleotide containing StuI restriction site

<400> 24

cggattaatg gtagaaggcc ttccacggga gggttcgaga agg

43

<210> 25

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing StuI
restriction site

<400> 25

tgaaaggcct tctaccatta atccgcgata aaccagcga acc

43

<210> 26

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BstXI
restriction site

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atgcatccaa aattttggtg gaatttaca gctataaggt tattgtcctg gg

52

<210> 27

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
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of NdeI restriction site

<400> 27

atcgacgagg aaatcgtcgt gctgtttgc

29

<210> 28

<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing AvrII
restriction site

<400> 28
aaacctagga aatgccagta aagcgctggc

30

<210> 29
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
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Sequence:Oligodesoxynucleotide containing AvrII
and AatII restriction sites

<400> 29
ttcctagggtt gacgtcttct gatgggctgc ctgtatcg

38

<210> 30
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing SmaI
restriction site

<400> 30
cctatggata tccccgggg gatagccca gtacattaa aacgtcc

47

<210> 31
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing
restriction site SmaI

<400> 31
ctatcccccg ggggatatcc ataggccga tctagtaaca tagatgac

48

<210> 32
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing Bsp120I
restriction site

<400> 32

gcgcacttgg gcccata cgcacgaacga tcgttcaaac atttggc

47

<210> 33
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing Bsp120I
restriction site

<400> 33
ttcgtcgagc tatgggcccga agtgcgcatc ccgtagggcga agaactc

47

<210> 34
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide downstream of a
BstBI restriction site

<400> 34
ttcttgacga gttcttctga gcggg

25

<210> 35
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing
restriction sites KpnI, HindIII, EcoRI and XhoI

<400> 35
cggtaccgaa gctttgaatt cactcgagca gattgtcggt tcccgcc

47

<210> 36
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing
restriction sites AvrII and AgeI

<400> 36
tatcctagga accggtaaacc cctgtggttg gcatgc

36

<210> 37
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial

Sequence:Oligodesoxynucleotide used for synthesis
of fragment 13-beg. Pnos"

<400> 37
atatgagact ctaattggat accgagggg

29

<210> 38
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing XhoI,
EcoRI, HindIII et KpnI restriction sites

<400> 38
gctcgagtga attcaaagct tcggtaccgt tgaaggagcc actcagccg

49

<210> 39
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide for synthesis of
part of npt II and BspEI site

<400> 39
ggaatcgaaa tctcgtgatg gcagg

25

<210> 40
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide used for synthesis
of part of Pnos and npt II

<400> 40
attattgcgc gttcaaaaagt cgcc

24

<210> 41
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide used in the
synthesis of XbaI, SalI, PacI, BamHI, MluI, HpaI
et FseI restriction sites of an MCS

<400> 41
agcttgccg gccgttaaca cgcgtagatc cttaattaag tcgactctag ag

52

<210> 42
<211> 52

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide used in the
synthesis of XbaI, SalI, PacI, BamHI, MluI, HpaI
et FseI restriction sites of an MCS

<400> 42

aattctctag agtcgactta attaaggatc cacgcgtgtt aacggccggc ca

52

<210> 43

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BspEI
restriction site

<400> 43

taatctgcat ccgatctgg atcgtttcgc

30

<210> 44

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BspEI
restriction site

<400> 44

acgatccaga tccgatgca gattatttgg

30

<210> 45

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BglII
restriction site

<400> 45

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30

<210> 46

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BstBI
restriction site

<400> 46

<210> 47
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence:Oligodesoxynucleotide used for synthesis
 of plasmid pUC19-uidA-Tnos delta EcoRI

<400> 47
 tacgccaagc ttggcaattc c 21

<210> 48
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence:Oligodesoxynucleotide containing NcoI and
 SmaI restriction sites

<400> 48
 aatacccggg accatgggtcc gtcctgtag 29

<210> 49
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence:Oligodesoxynucleotide situated upstream
 of SnaBI restriction site

<400> 49
 atagtctgcc agttcagttc gttg 24

<210> 50
 <211> 9688
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pMRT1334

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 <222> (1)
 <223> pMRT1334 was obtained by replacing the nptII
 expression cassette of pMRT1206 by the nptII
 expression cassette of pBIN19

<400> 50
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